

**bsm-10825M****[ Primary Antibody ]****CD31 Mouse mAb****Bioss**  
**ANTIBODIES**

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**— DATASHEET —****Host:** Mouse**Clonality:** Monoclonal**GeneID:** 5175**Target:** CD31**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml

**Storage:** Size : 50ul/100ul/200ul  
0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.  
Size : 200ug (PBS only)  
0.01M PBS  
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** The protein encoded by this gene is found on the surface of platelets, monocytes, neutrophils, and some types of T-cells, and makes up a large portion of endothelial cell intercellular junctions. The encoded protein is a member of the immunoglobulin superfamily and is likely involved in leukocyte migration, angiogenesis, and integrin activation. [provided by RefSeq, May 2010]

**Isotype:** IgG1**CloneNo.:** 2D4**SWISS:** P16284

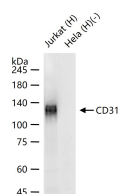
**Applications:** **WB** (1:1000-10000)  
**IHC-P** (1:200-2000)  
**IHC-F** (1:200-2000)  
**IF** (1:200-2000)  
**Flow-Cyt** (1ug/Test)  
**ICC/IF** (1:200-800)

**Reactivity:** Human

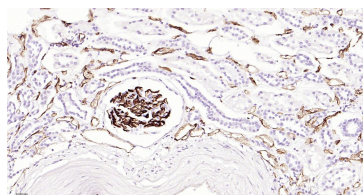
**Predicted**  
**MW.:** 78 kDa

**Observed**  
**MW.:** 130 kDa

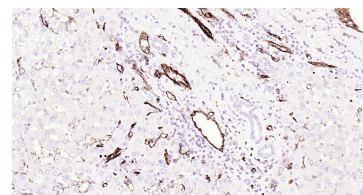
**Subcellular** Membrane ,Cell junction  
**Location:** ,Cell membrane

**— VALIDATION IMAGES —**

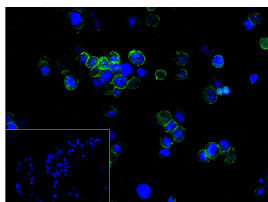
25 ug total protein per lane of various lysates (see on figure) probed with CD31 monoclonal antibody, unconjugated (bsm-10825M) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



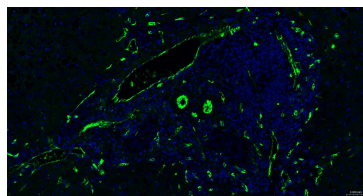
Paraformaldehyde-fixed, paraffin embedded Human Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with CD31 Monoclonal Antibody, Unconjugated (ascites of bsm-10825M) at 1:1500 overnight at 4°C, followed by conjugation to the bs-40296G-HRP and DAB (C-0010) staining.



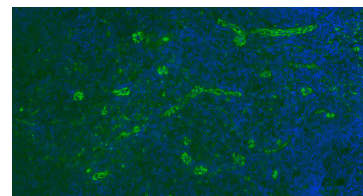
Paraformaldehyde-fixed, paraffin embedded Human Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with CD31 Monoclonal Antibody, Unconjugated (ascites of bsm-10825M) at 1:1500 overnight at 4°C, followed by conjugation to the bs-40296G-HRP and DAB (C-0010) staining.



4% Paraformaldehyde-fixed THP-1 (H) cell; Antibody incubation with (CD31) monoclonal Antibody, unconjugated (bsm-10825M) 1:200, 90 min at 37°C; followed by conjugated Goat Anti-Mouse IgG antibody (green, bs-60296G-BF488) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.

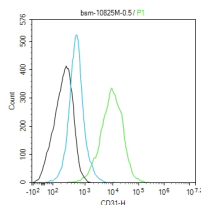


Paraformaldehyde-fixed, paraffin embedded Human Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CD31 Monoclonal Antibody, Unconjugated (bsm-10825M) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (green, bs-0296G-BF488), DAPI (blue, C02-04002) was used to stain the cell nuclei.



Paraformaldehyde-fixed, paraffin embedded Human Tonsil; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CD31 Monoclonal Antibody, Unconjugated (bsm-10825M) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (green, bs-0296G-BF488), DAPI (blue, C02-04002) was used to stain the cell nuclei.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



The THP-1(H) cells were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.). Primary Antibody (green): Mouse Anti-CD31 antibody (bsm-10825M): 0.5  $\mu\text{g}/10^6$  cells; Secondary Antibody (white blue): Goat anti-Mouse IgG-FITC (bs-60296G-FITC): 1  $\mu\text{g}/\text{test}$ . Blank control (black): PBS. Acquisition of 20,000 events was performed.

## — SELECTED CITATIONS —

- **[IF=19]** Peiyi She. et al. ROS-Responsive Nanoplatfoms for Atherosclerosis Photoacoustic Diagnosis and Endothelial Cell-Macrophage Crosstalk Regulation. ADV FUNCT MATER. 2025 Oct;;e19462 WB ;Human. 10.1002/adfm.202519462
- **[IF=11.322]** Jinxiu Yu. et al. Promoting osseointegration of titanium by pH-responsive releasing of H<sub>2</sub>S and optimizing polarization time for macrophages. COMPOS PART B-ENG. 2023 Mar;253:110554 IHC,IF ;Rat. 10.1016/j.compositesb.2023.110554
- **[IF=10.041]** Bingcheng Yi. et al. Lysine-doped polydopamine coating enhances antithrombogenicity and endothelialization of an electrospun aligned fibrous vascular graft. Appl Mater Today. 2021 Dec;25:101198 IF ;Human. 10.1016/j.apmt.2021.101198
- **[IF=9.6]** Yi Wu. et al. Breaking Age-Impaired Bone Healing Challenge: Smart Hydrogel-Coated Implant Reprograms Aging Bone Microenvironments via Senolytic and Pro-Angiogenic Dual Therapy. ADV HEALTHC MATER. 2025 Sep;;e01928 WB,IF ;Human. 40947643
- **[IF=7.3]** Su Yiqi. et al. Synergistic promotion of bone regeneration through co-culture of endothelial cells with mesenchymal stem cells in endochondral ossification organoids. STEM CELL RES THER. 2025 Dec;16(1):647 WB,IHC ;Human,Rat. 41254677